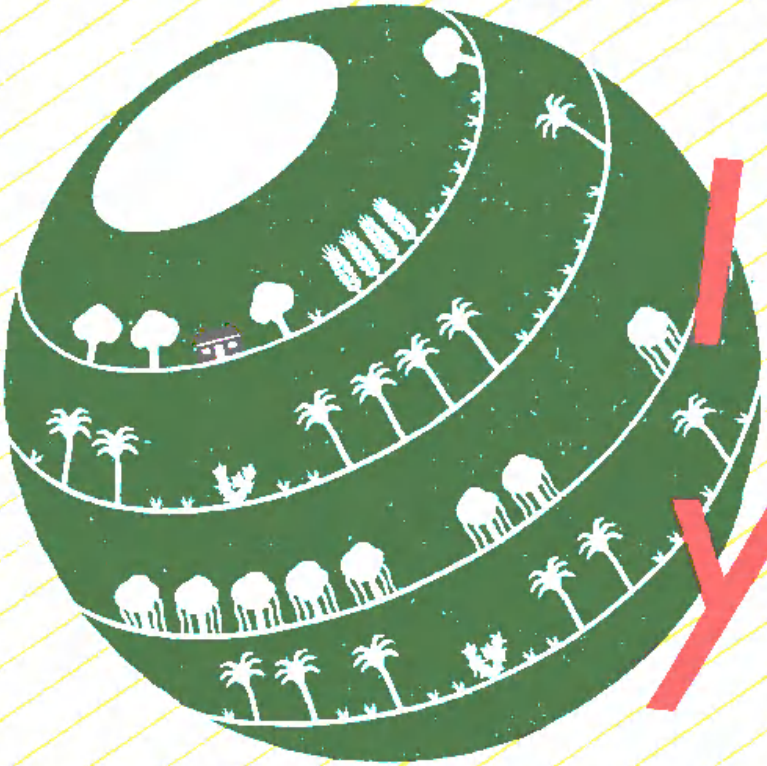
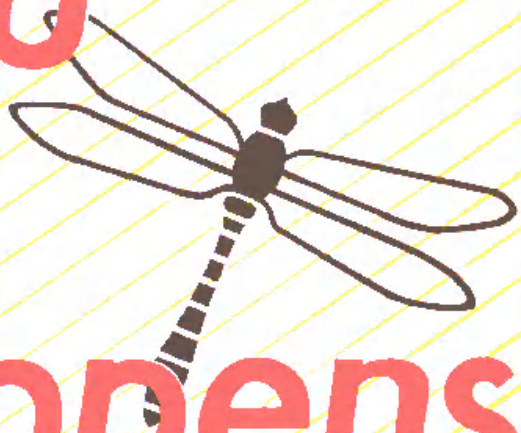


I'll show you how it happens



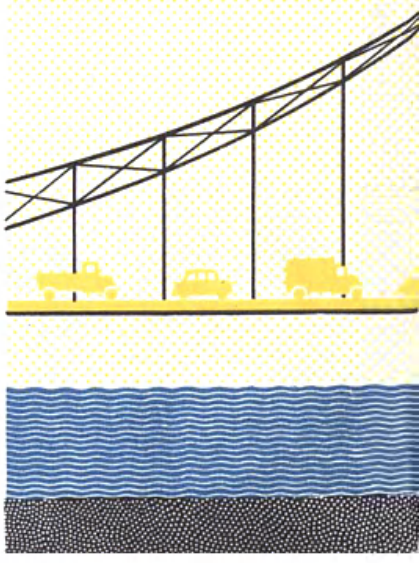
A PARRISH COLOUR BOOK FOR YOUNG CHILDREN

I'll show you how it happens

i'll

by **Marie Neurath**

ISOTYPE



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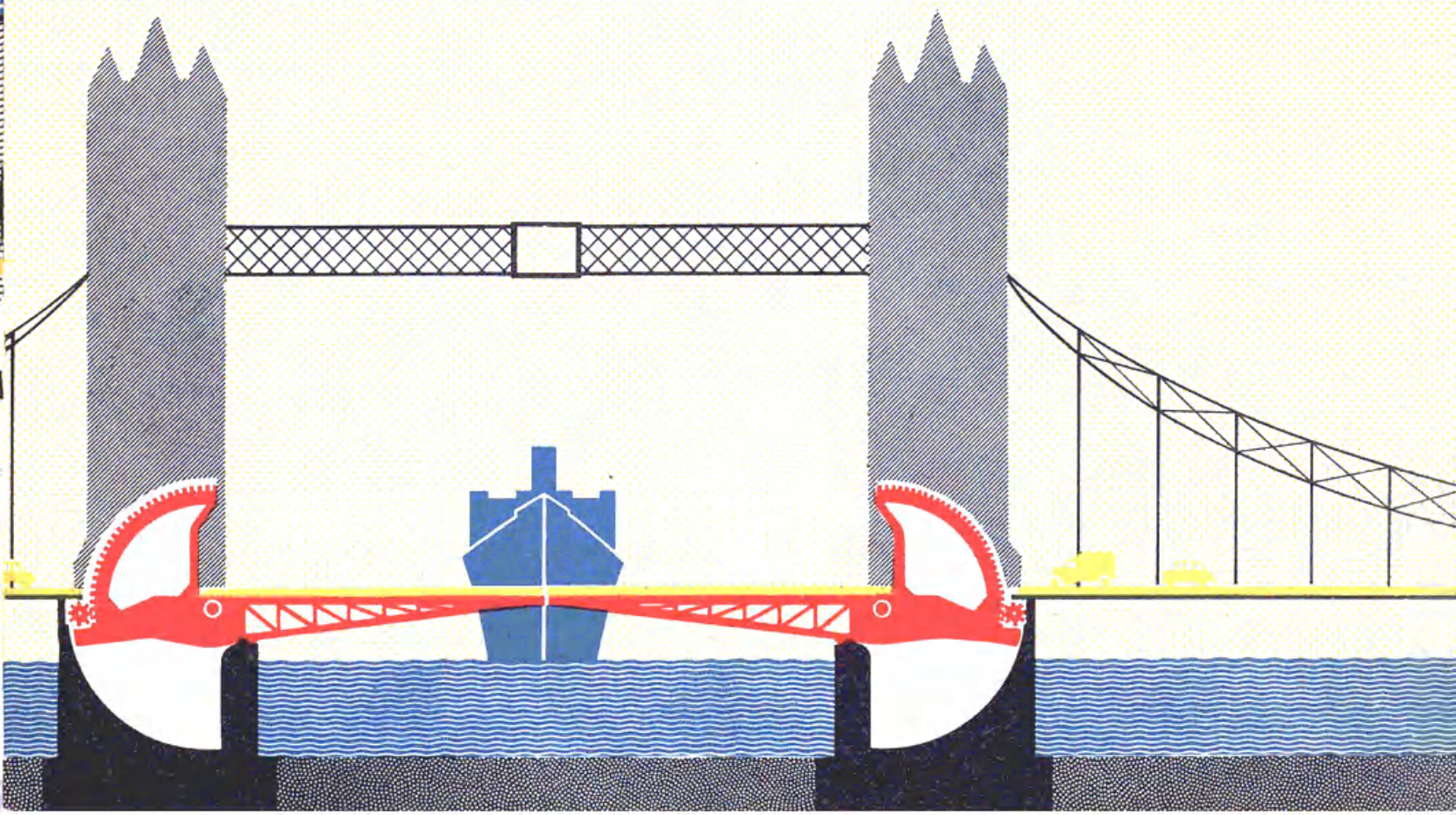
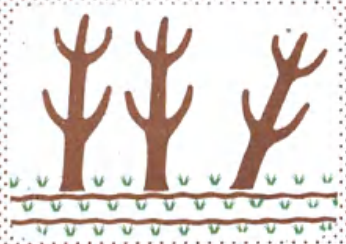
show you how it happens





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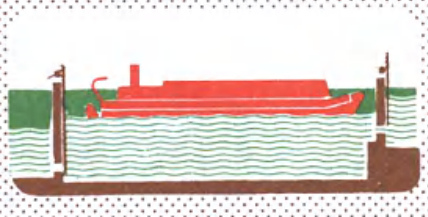

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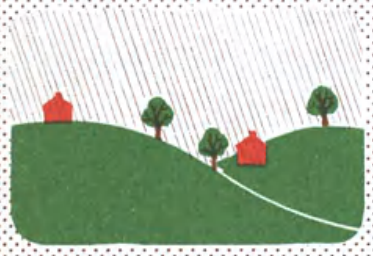
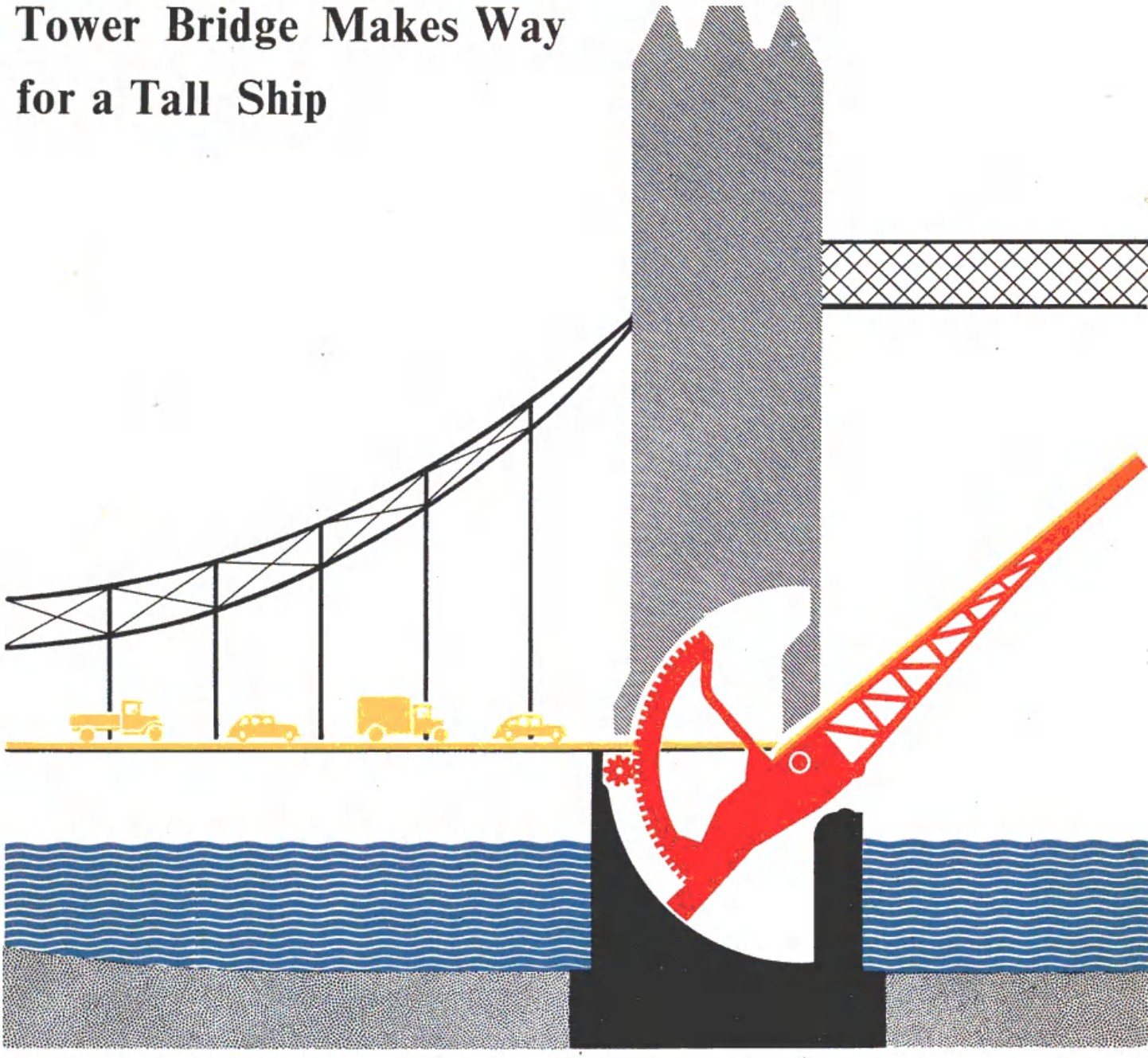
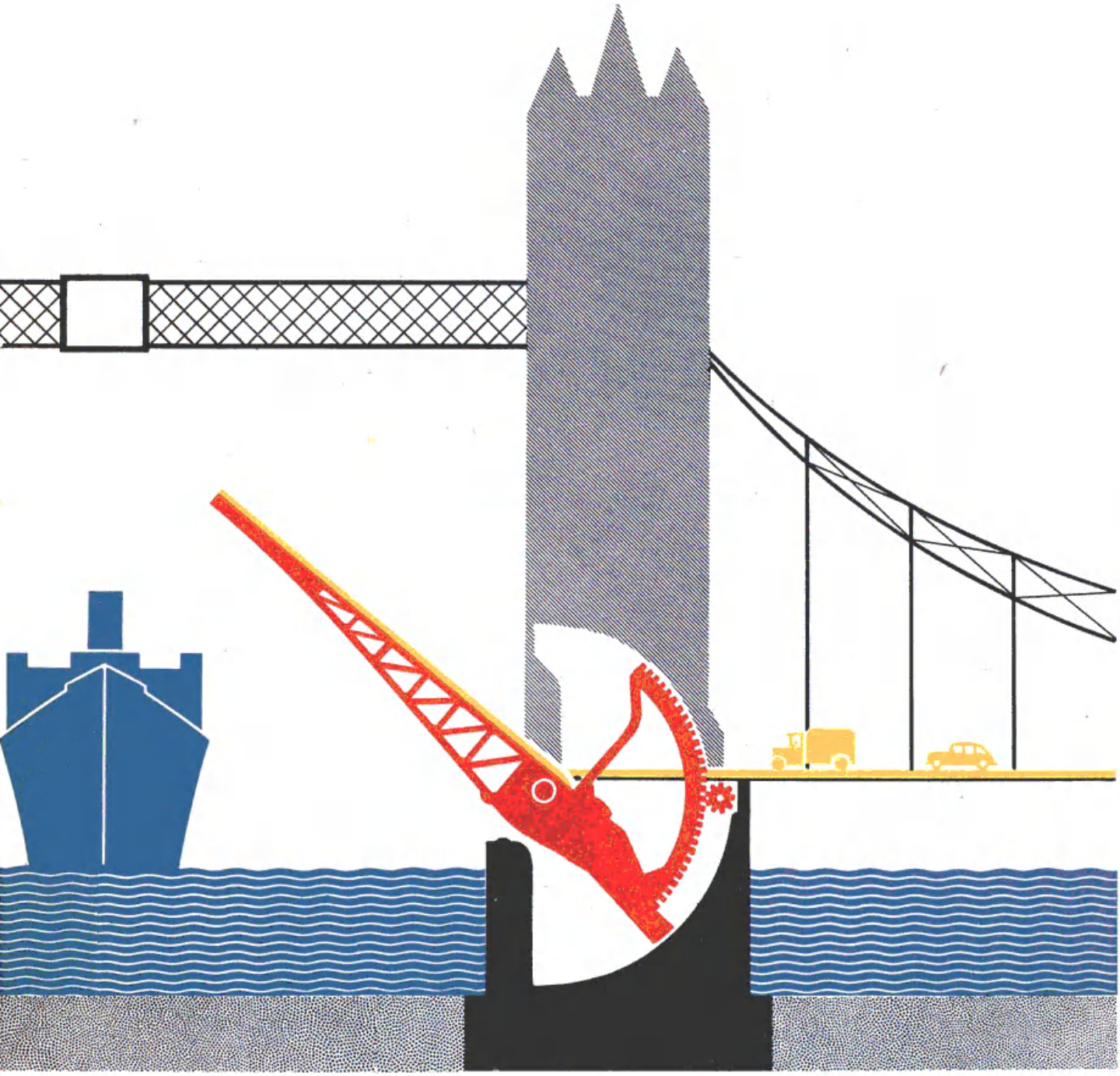


Tower Bridge Makes Way for a Tall Ship

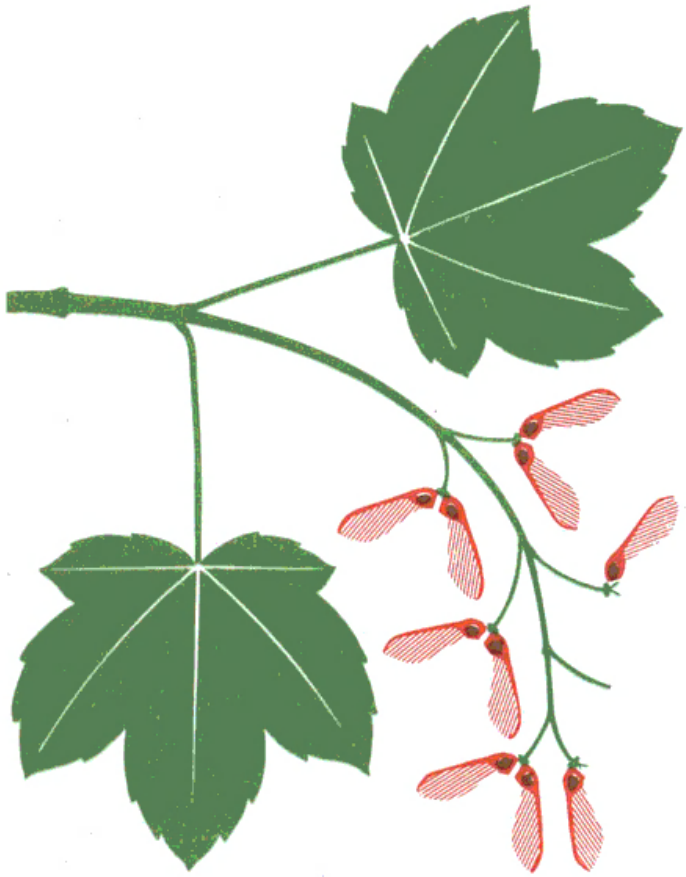


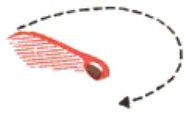
When a tall ship wants to pass under London's famous Tower Bridge, to make way for it. Each arm works like a lever, balanced by a heavy In three minutes the ship has passed by and the arms are lowered

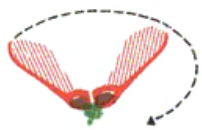


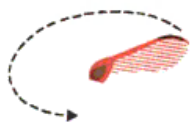
the bridge is cleared of traffic and the road lifts up in two mighty arms
weight at one end, and both are set moving by engines inside the towers.
again. The waiting traffic once more begins to stream across the bridge.

Seeds that Fly to New Ground on Wings . . .



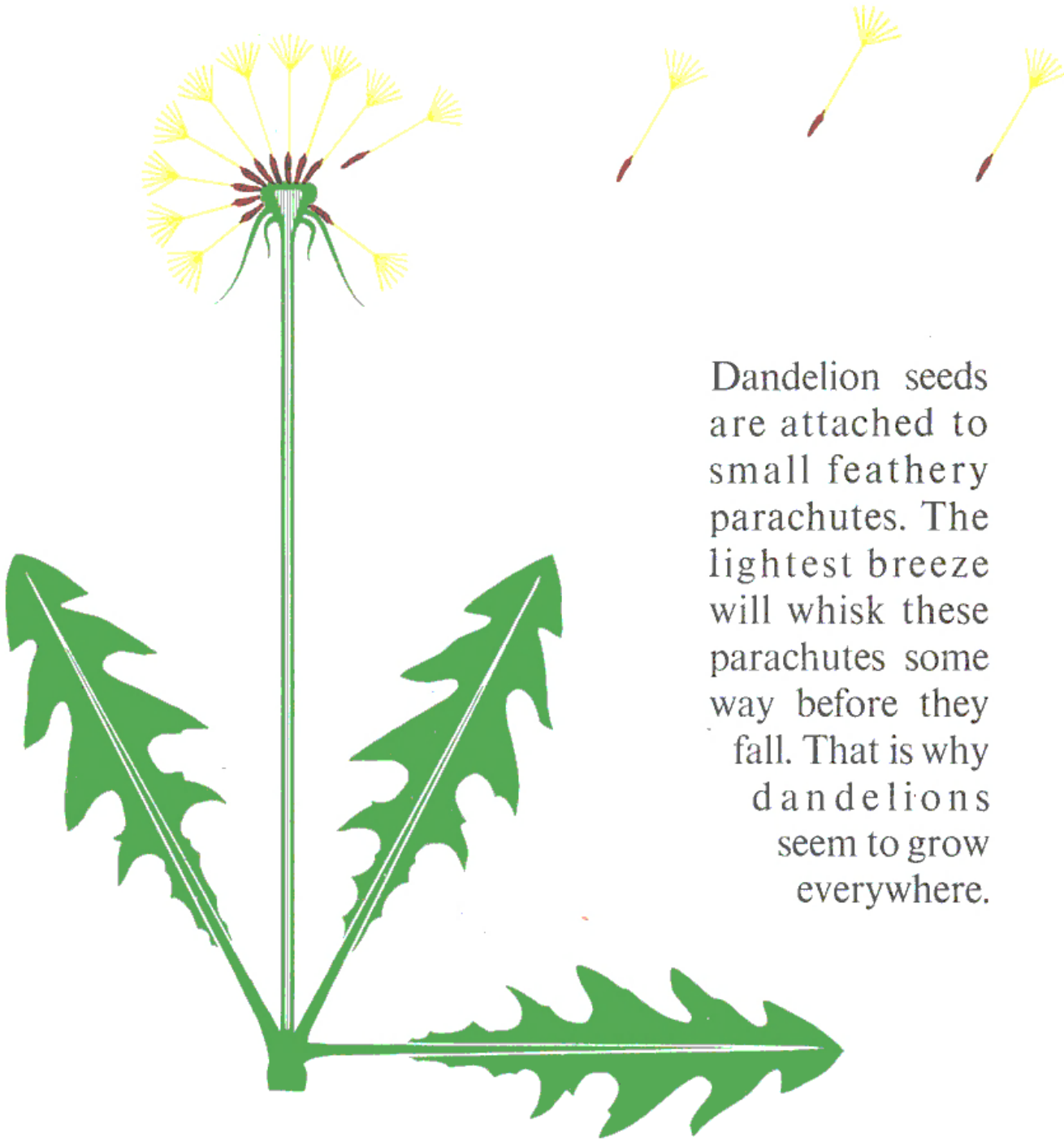






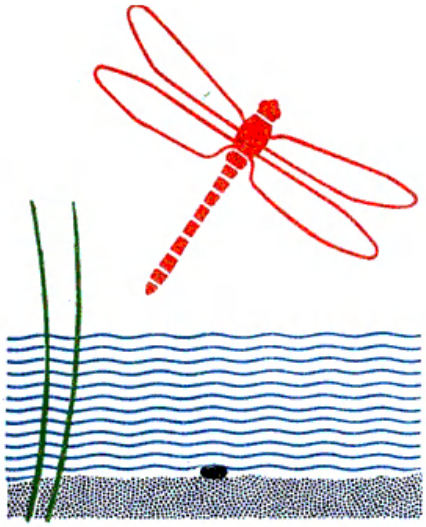
In late summer you will see numbers of brown wings hanging from the boughs of the sycamore tree. At the end of each wing is a seed. When a gust of wind comes, the wings carry the seeds away to the open ground.

and Parachutes



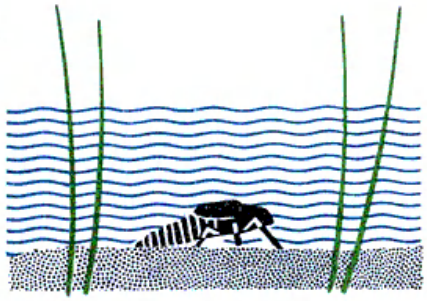
Dandelion seeds are attached to small feathery parachutes. The lightest breeze will whisk these parachutes some way before they fall. That is why dandelions seem to grow everywhere.

The Wonderful Birth of the Dragonfly

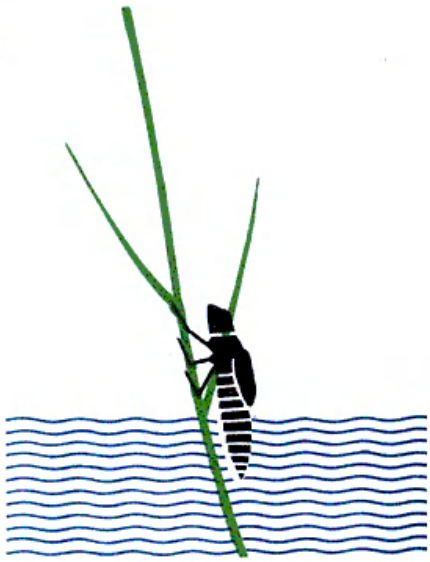


The egg
of the dragonfly
rests under water.

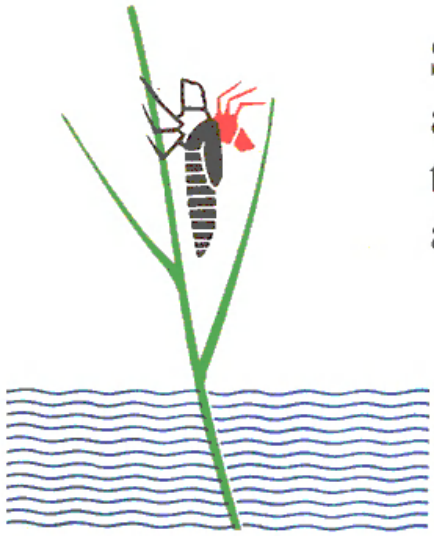
In time
a tiny spider-like
nymph hatches out.



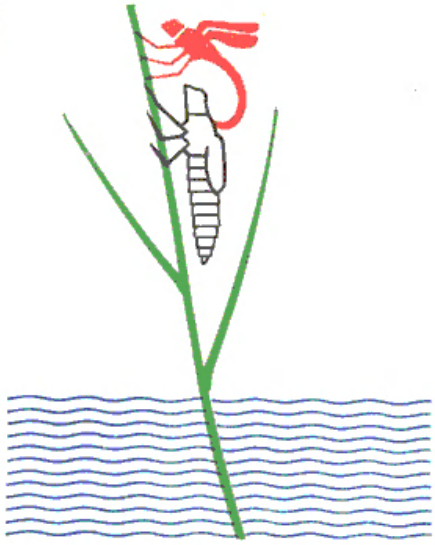
All winter
the nymph
grows steadily,
living in the water.



When the summer comes
it climbs a plant-stem
into the fresh air.

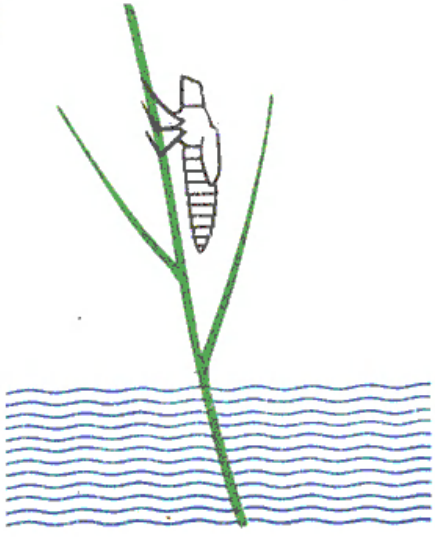


Soon its skin splits,
and out comes
the head of
a dragonfly.

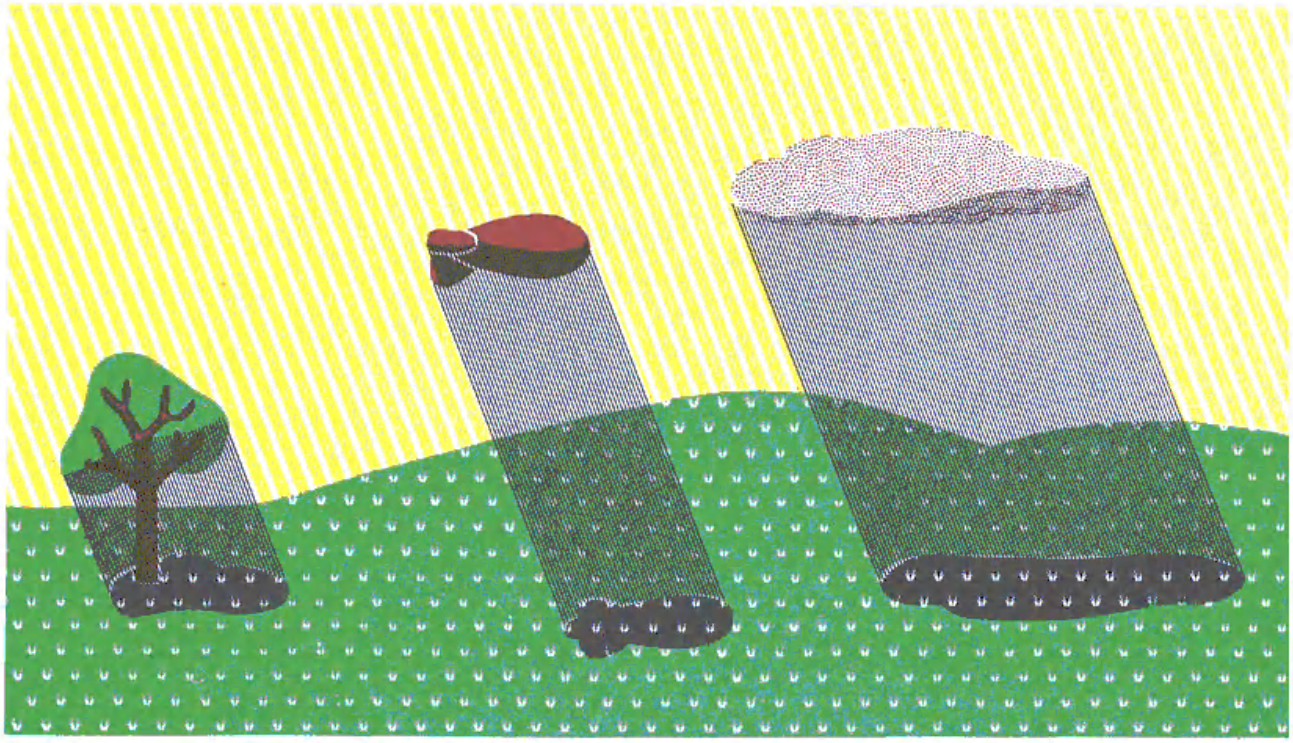


The
young
dragonfly
wriggles itself
free of its old
winter coat,

pauses
to stretch
its lovely
wings,

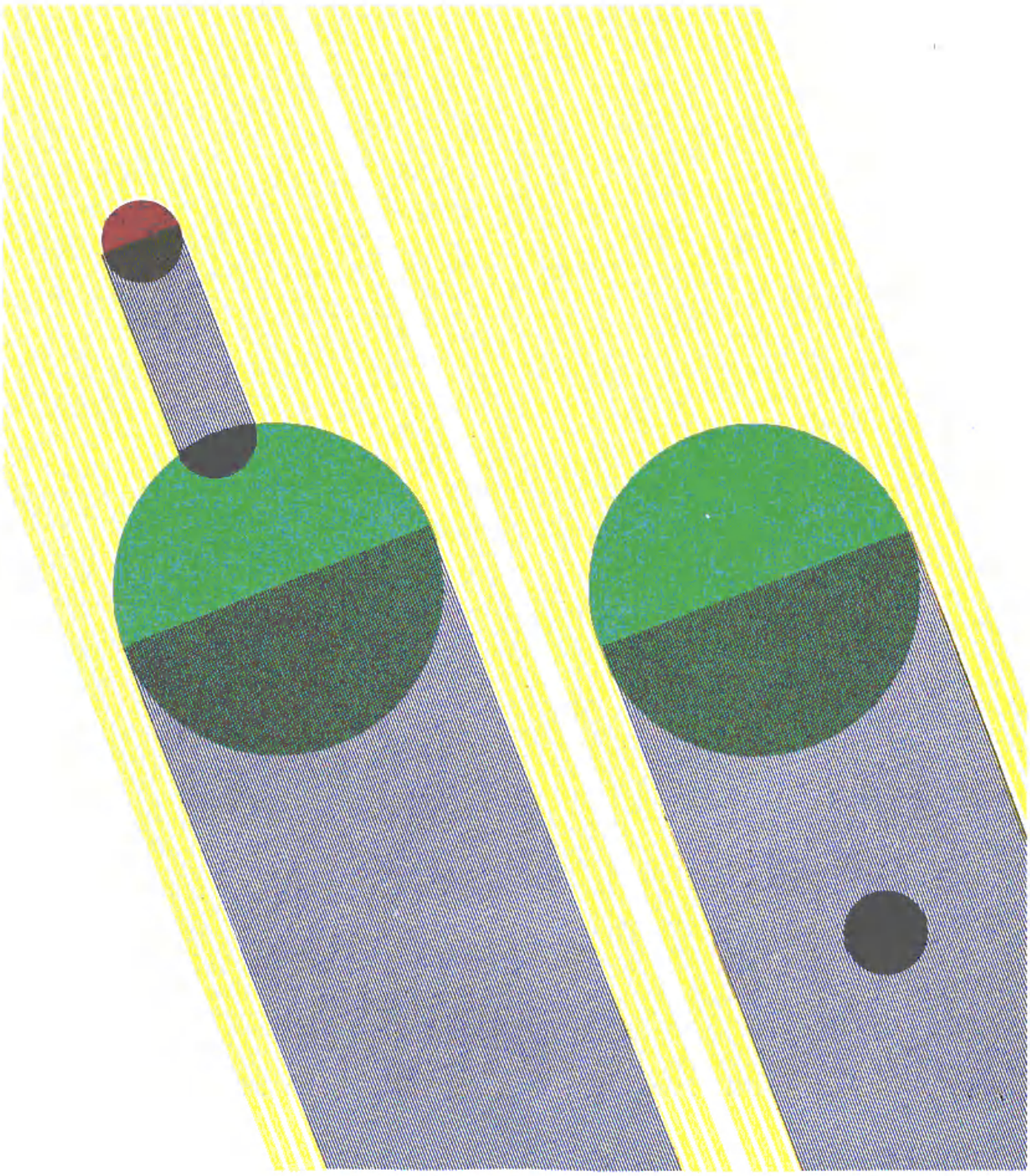


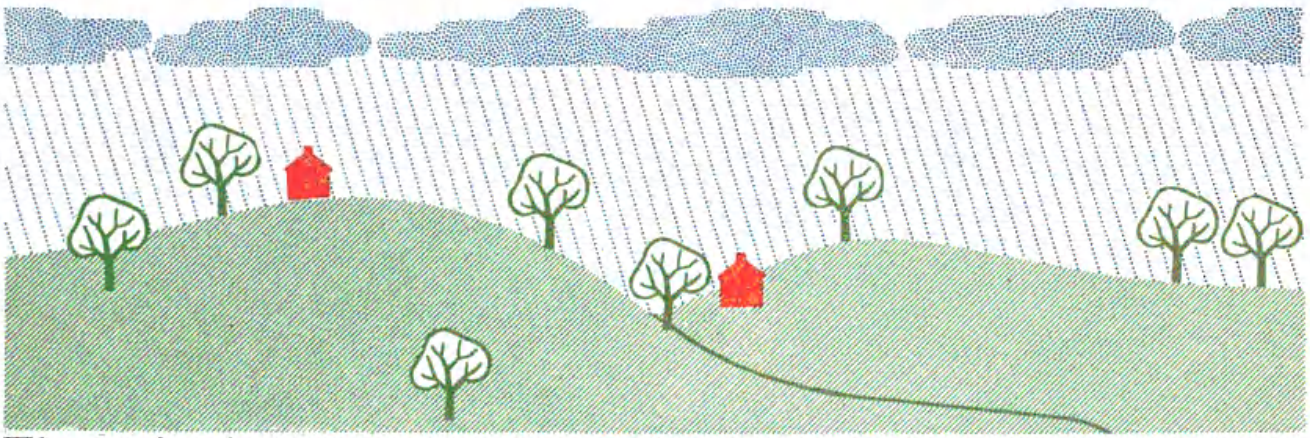
and flies up
into the summer sunshine.



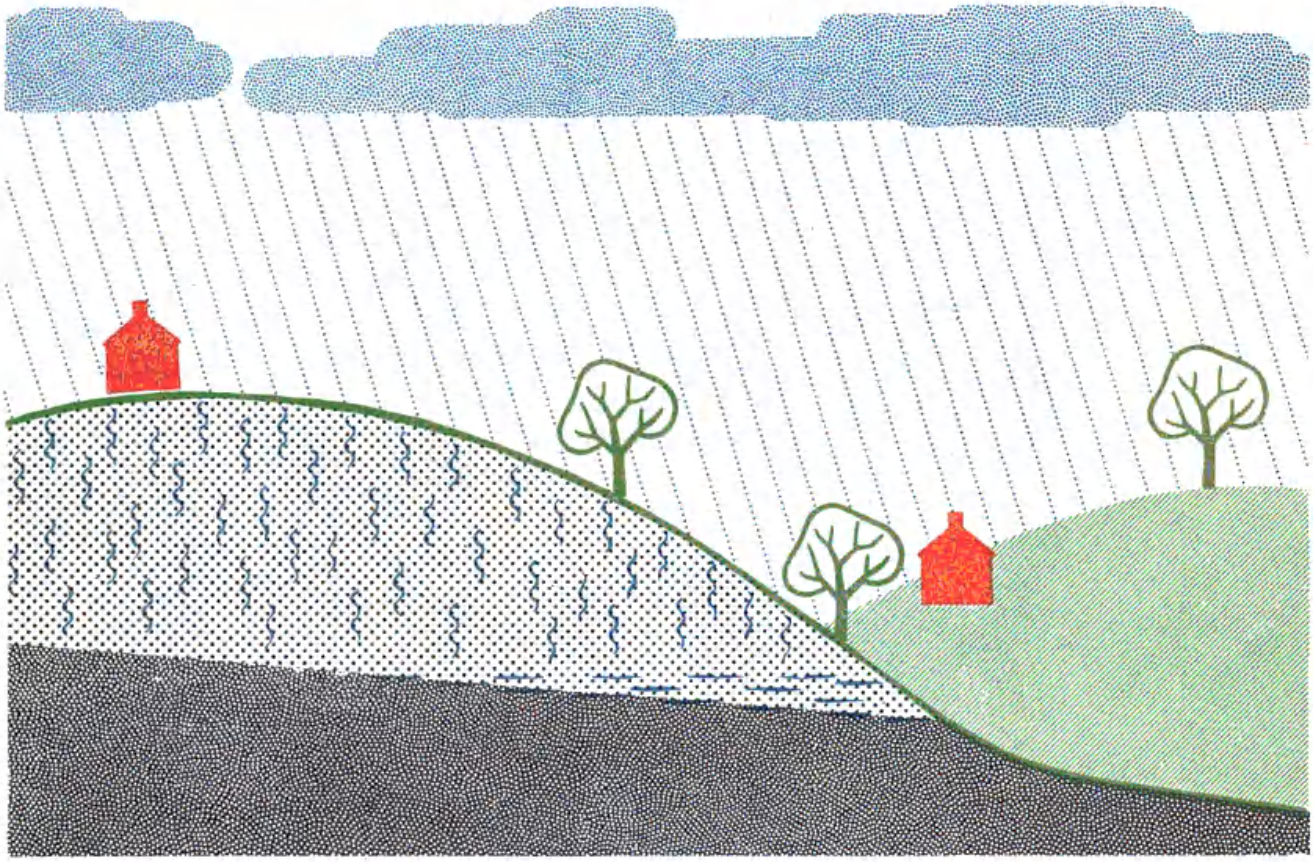
SHADOWS THAT FALL ON THE EARTH

The sun's light travels in straight lines, and cannot pass through solid objects. If a tree, or a balloon, or a cloud comes between the sun and the earth, a dark shadow falls on the ground. When the moon comes between the sun and the earth, it casts a huge shadow on the earth and hides the sun for a time. This is called an eclipse of the sun. When we see an eclipse of the moon, the *earth* has come between the sun and the moon. Its shadow has fallen on the moon and darkened it.



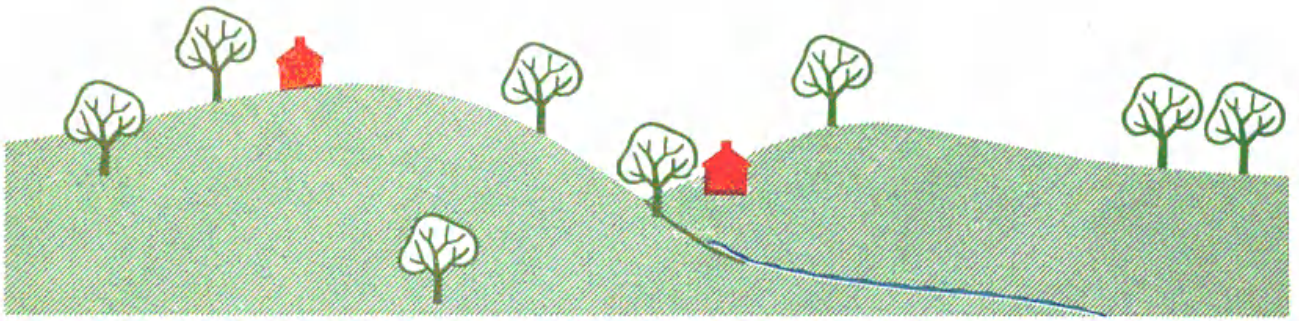


The rain falls on the dry hills. The spring does not flow.

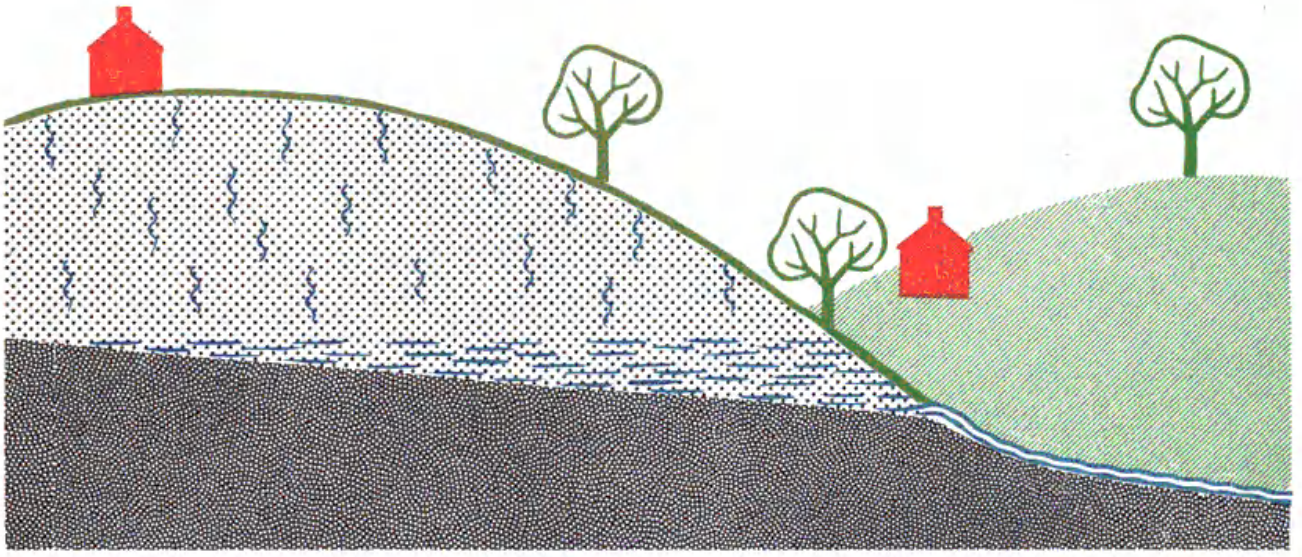


The water is soaking into the soft soil at the top of the hill and has begun to collect above the layer of hard earth further down.

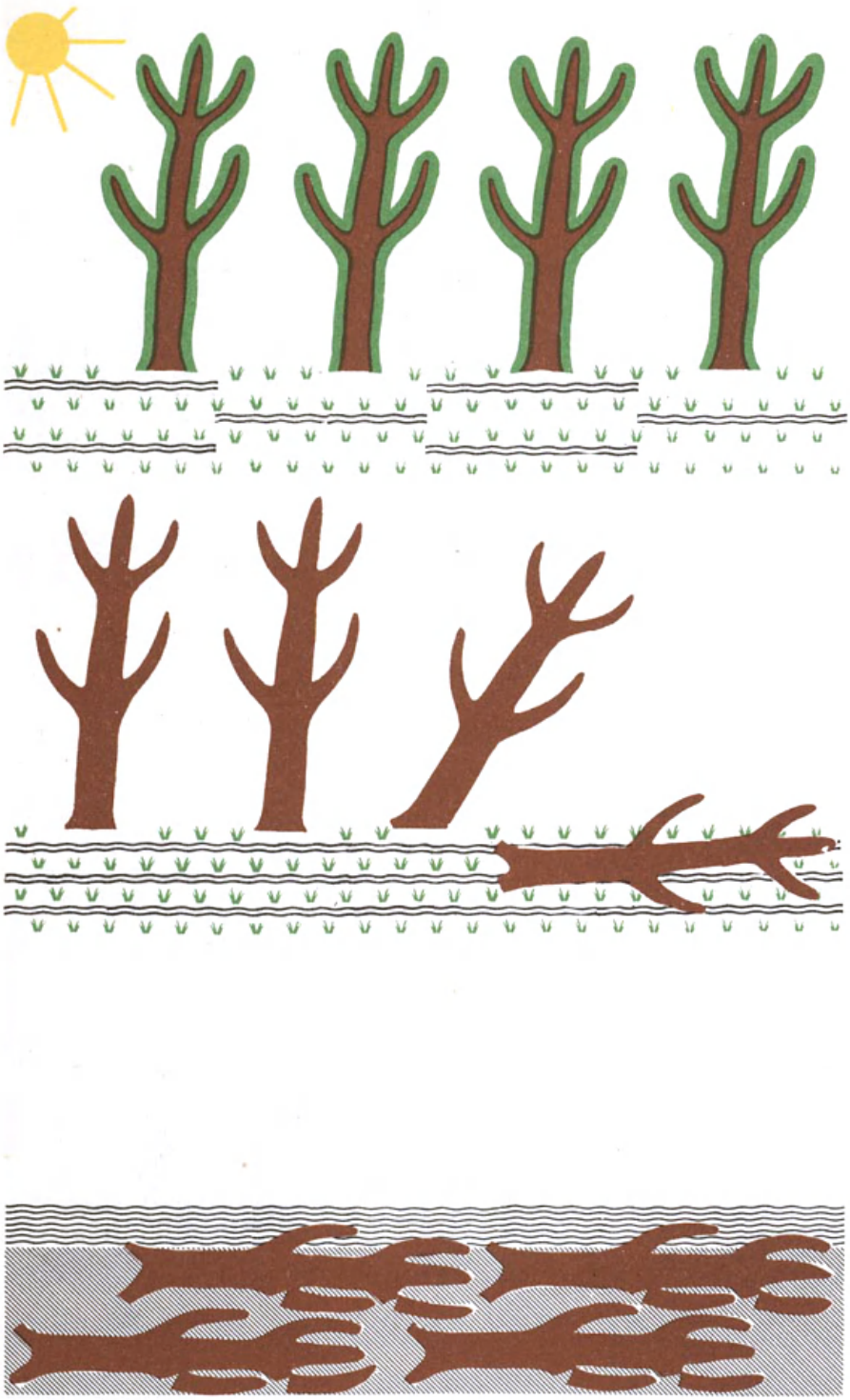
The Water that Springs from the Earth



Now the clouds have passed by, but the spring begins to flow.



The water has collected inside the hill until there is more than the soil can hold. The rest finds a way out through the spring.



THE LONG, SL

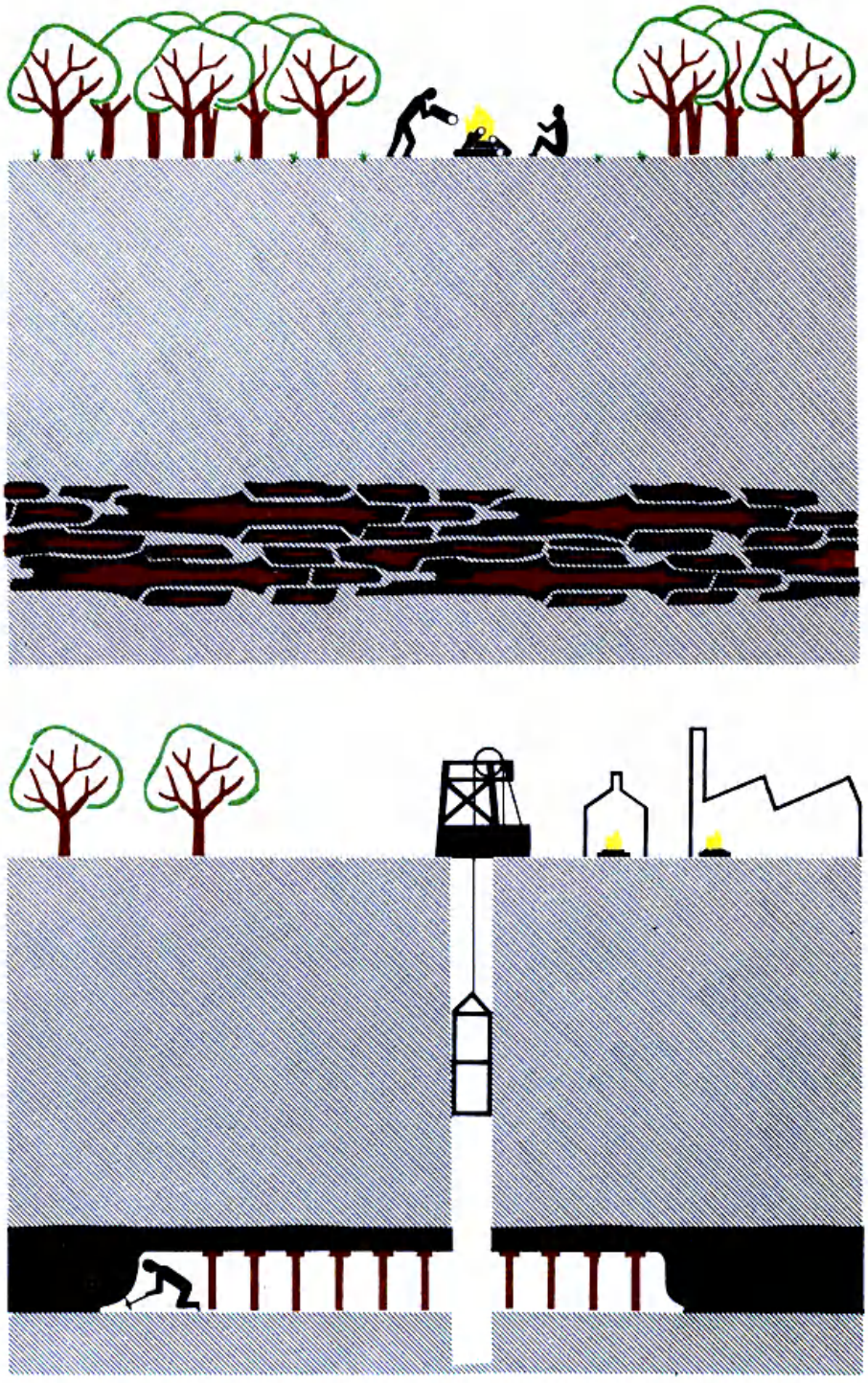
THE COAL

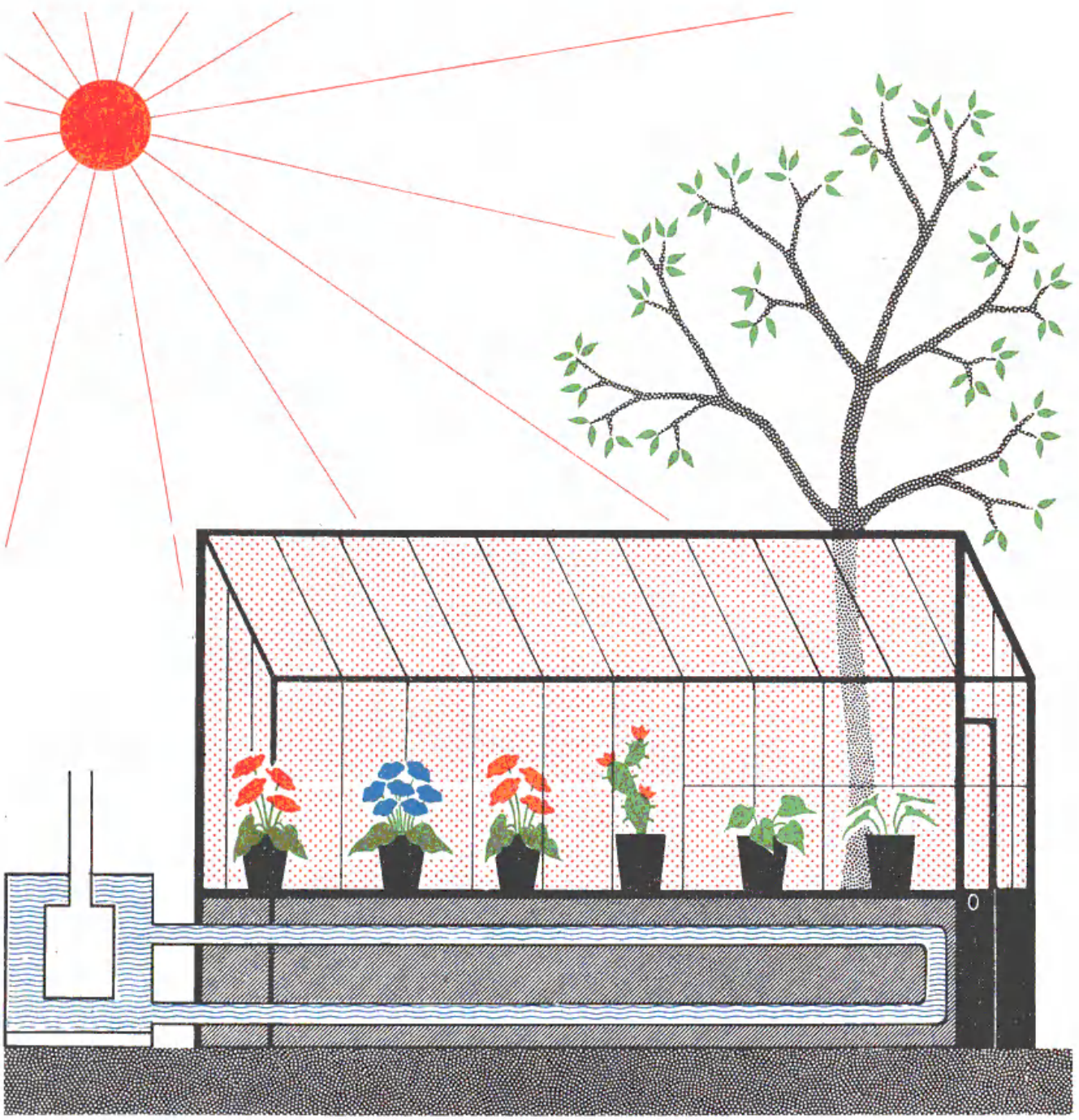
Millions of years
first men lived on
trees grew in swa
by one they died a
into the soft wet
and water of age
with layer upon la
ing them deeper a
more. At last th
turned them into a
But the trees tha
ancient forests ha
When men learne
rock called coal
dug deep into the

OW BIRTH OF

WE BURN

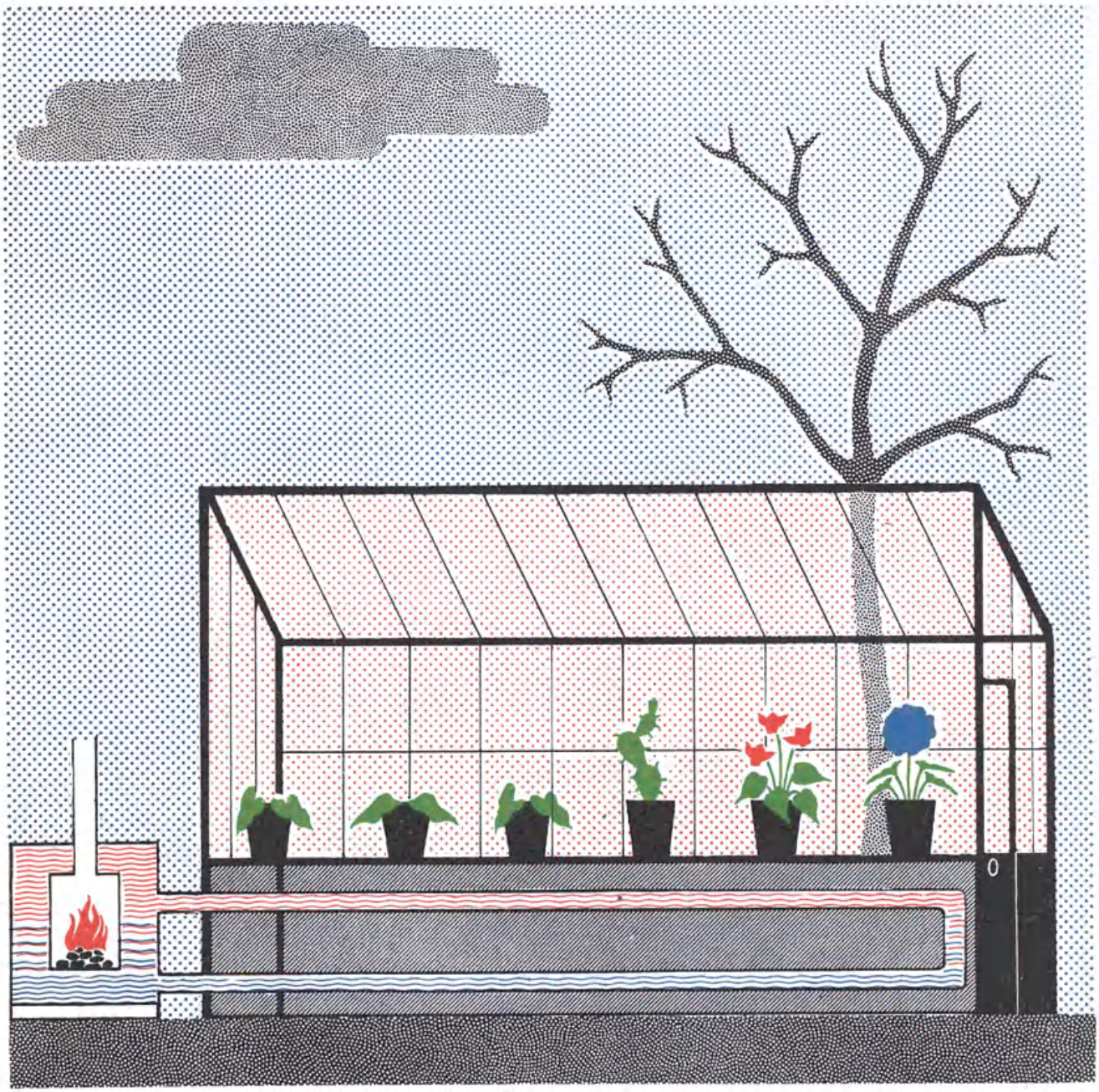
; ago, before the
the earth, strange
npy forests. One
nd crashed down
earth. The mud
s covered them
ayer of soil, bury-
nd crushing them
e weight of soil
hard black rock.
at grew in those
ve not been lost.
d that the black
would burn, they
e earth to find it.



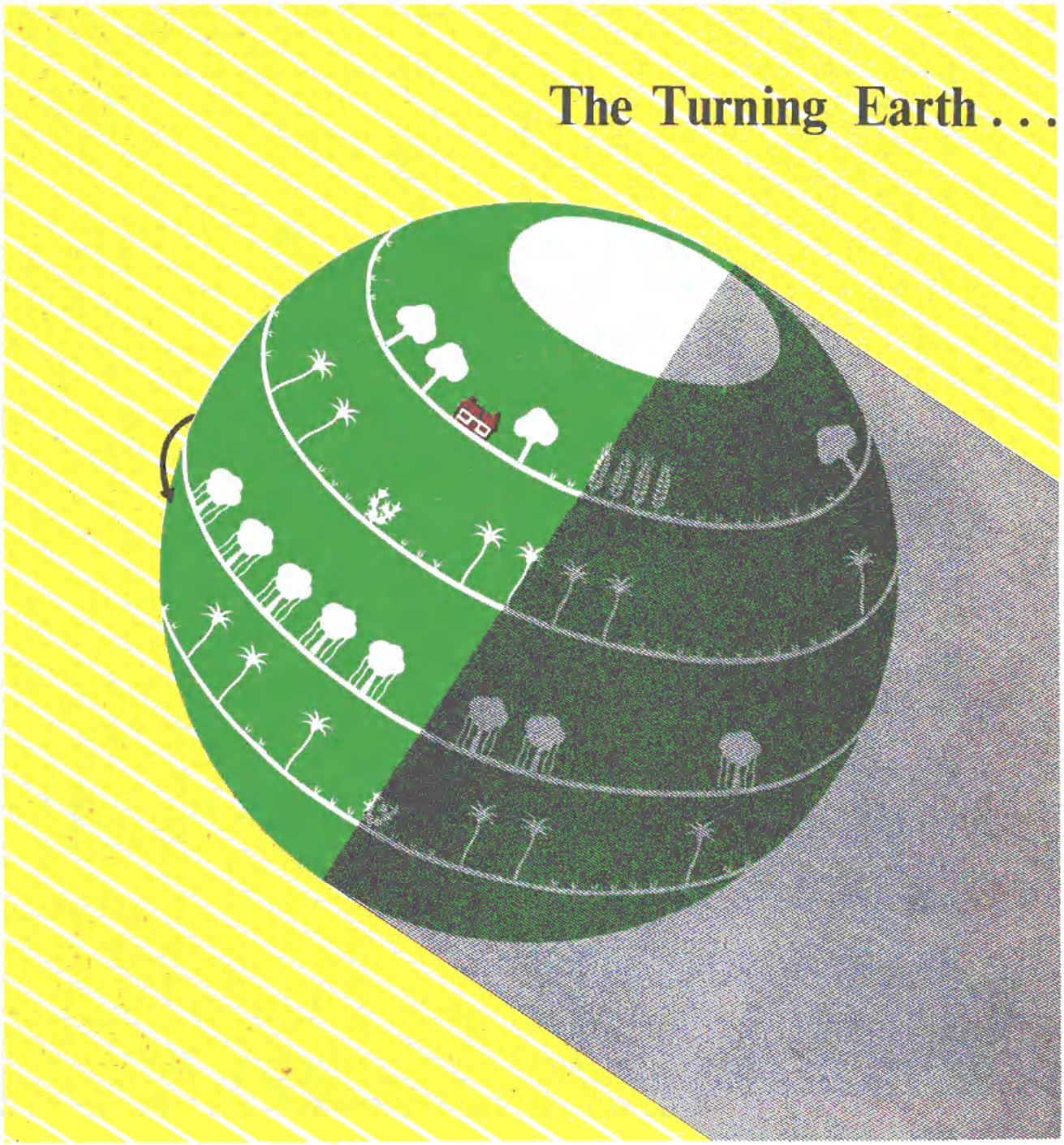


In spring and summer the greenhouse traps the warmth from the sun and becomes hot. We can grow tropical plants inside it.

THE WARM HOUSE WHERE THE FLOWERS LIVE

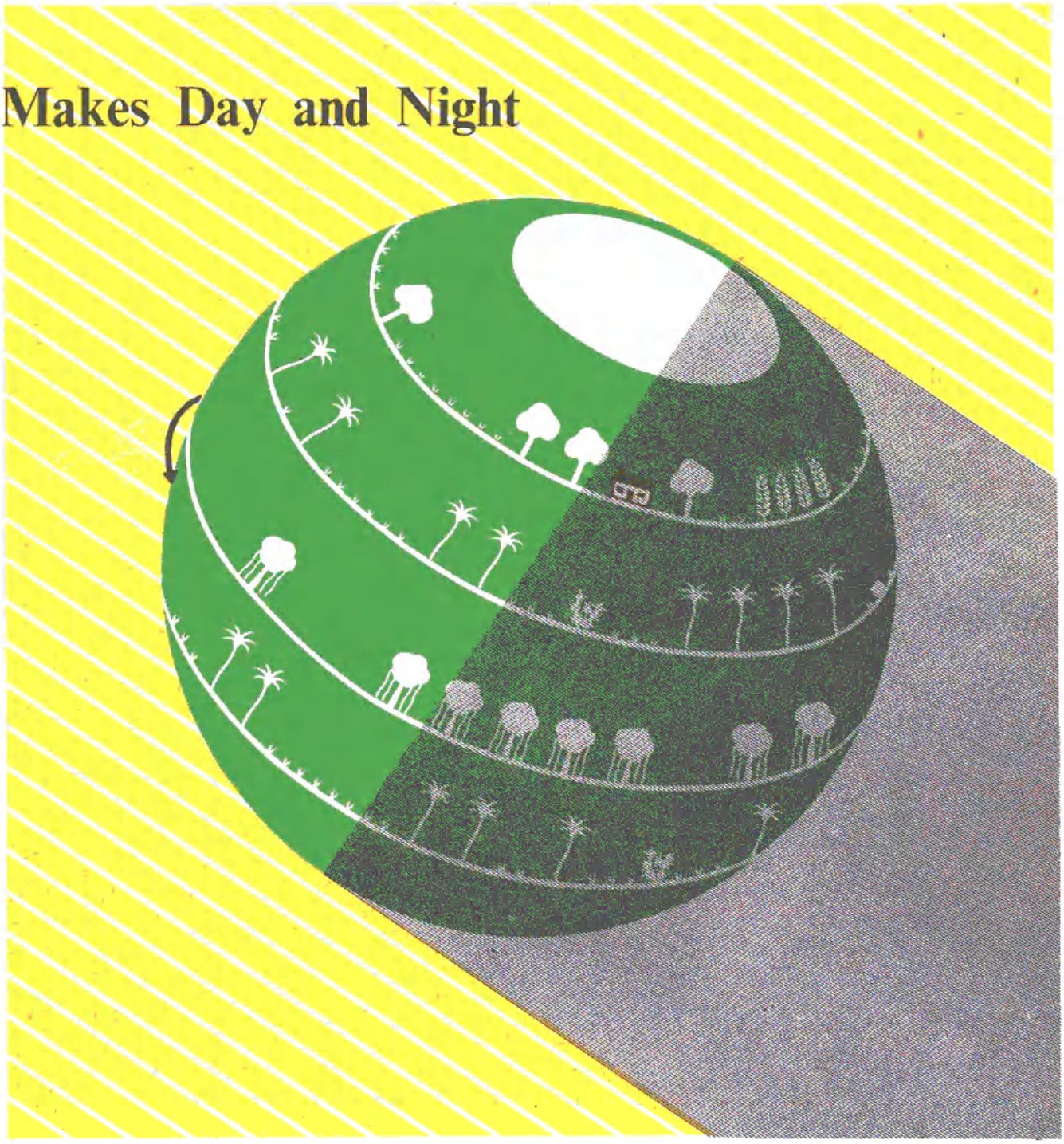


In winter we heat the greenhouse by a fire and hot-water pipes. Flowers will bloom inside which the frost outside would kill.



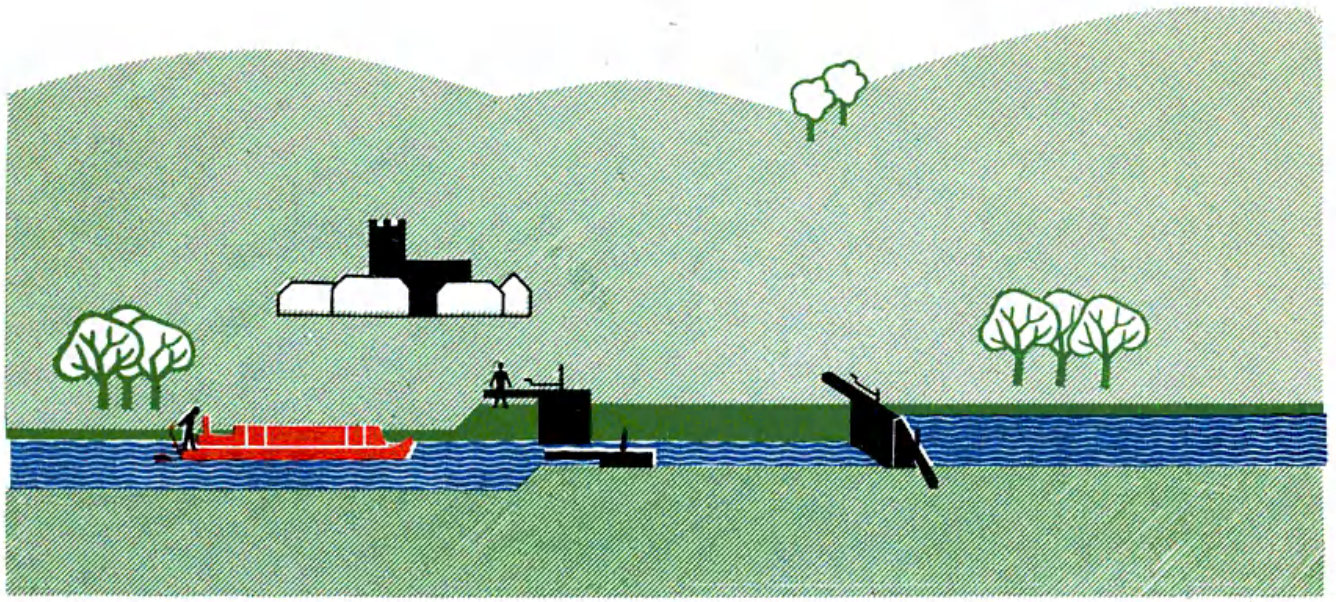
The little house stands in the sun's rays: it is daylight there.

Makes Day and Night

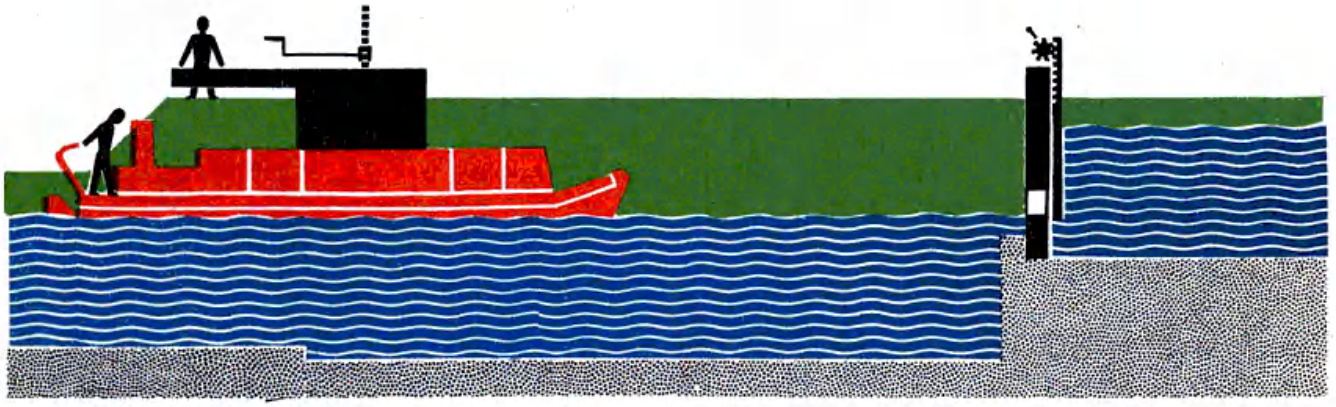


The earth turns. The house enters the shadow, and it is dark.

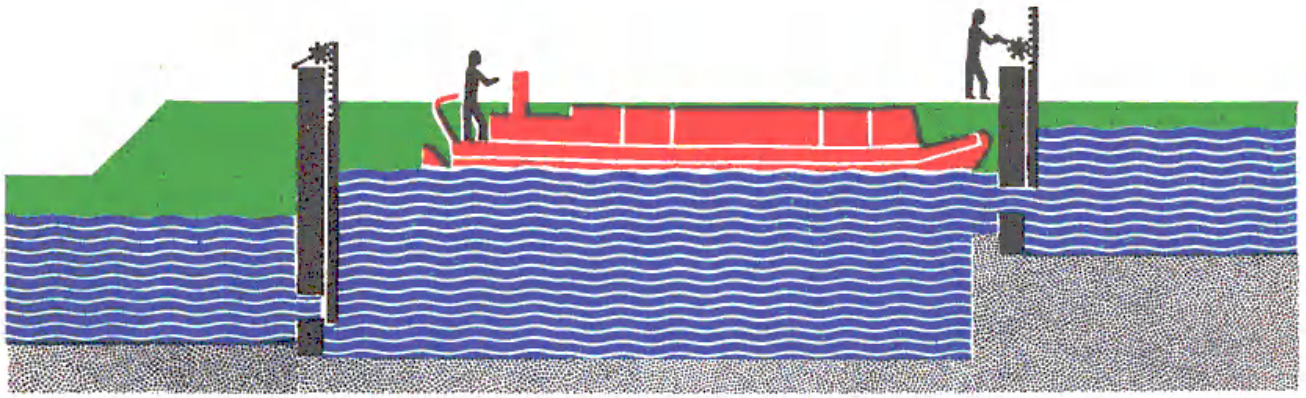
HOW A BOAT CAN GO UPHILL



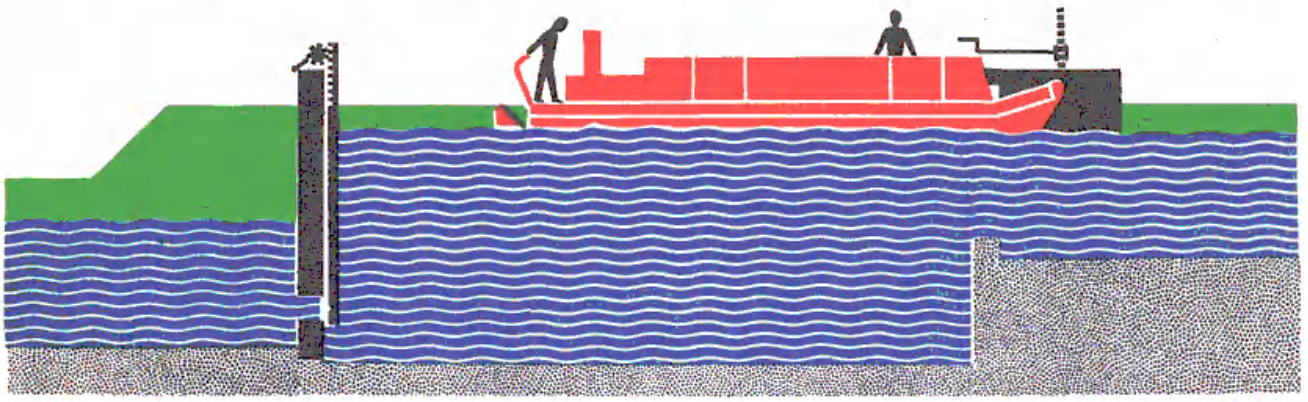
When a canal must pass through hilly country it is built in steps. Locks are made to help boats to climb from one step to another.



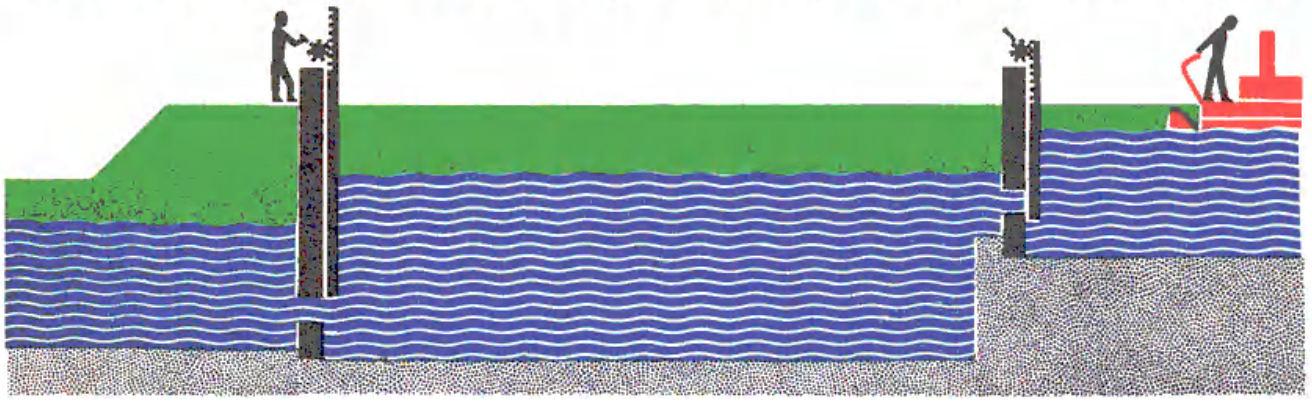
As the boat comes near, the lock-keeper swings the lower gate open. The boat enters the lock and the gate closes behind it.



Water is allowed to flow in under the top gate. The boat rises.

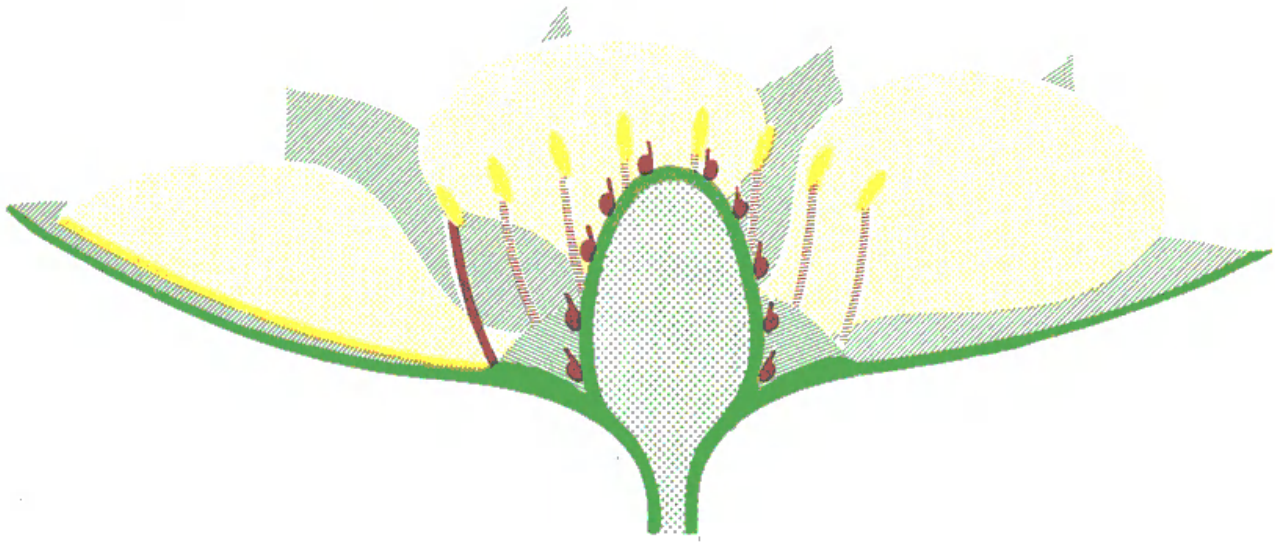


When the boat reaches the higher level, the top gate is opened.



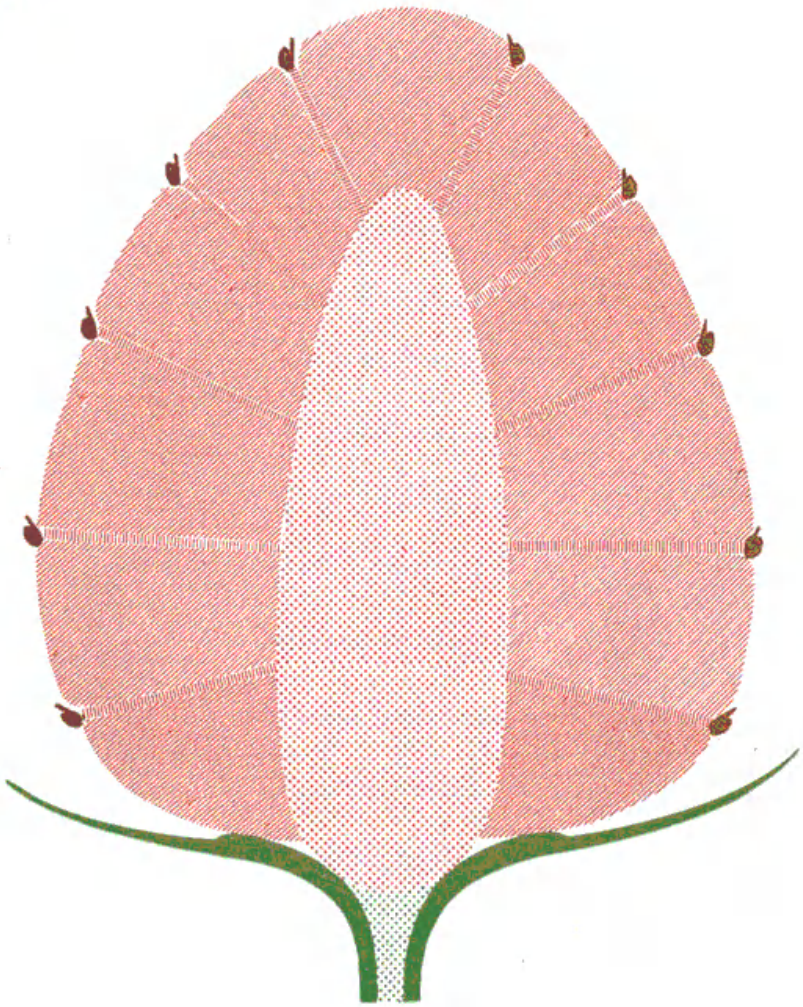
The top gate is closed and the water is allowed to fall again.

In spring the strawberry plant opens its flowers.

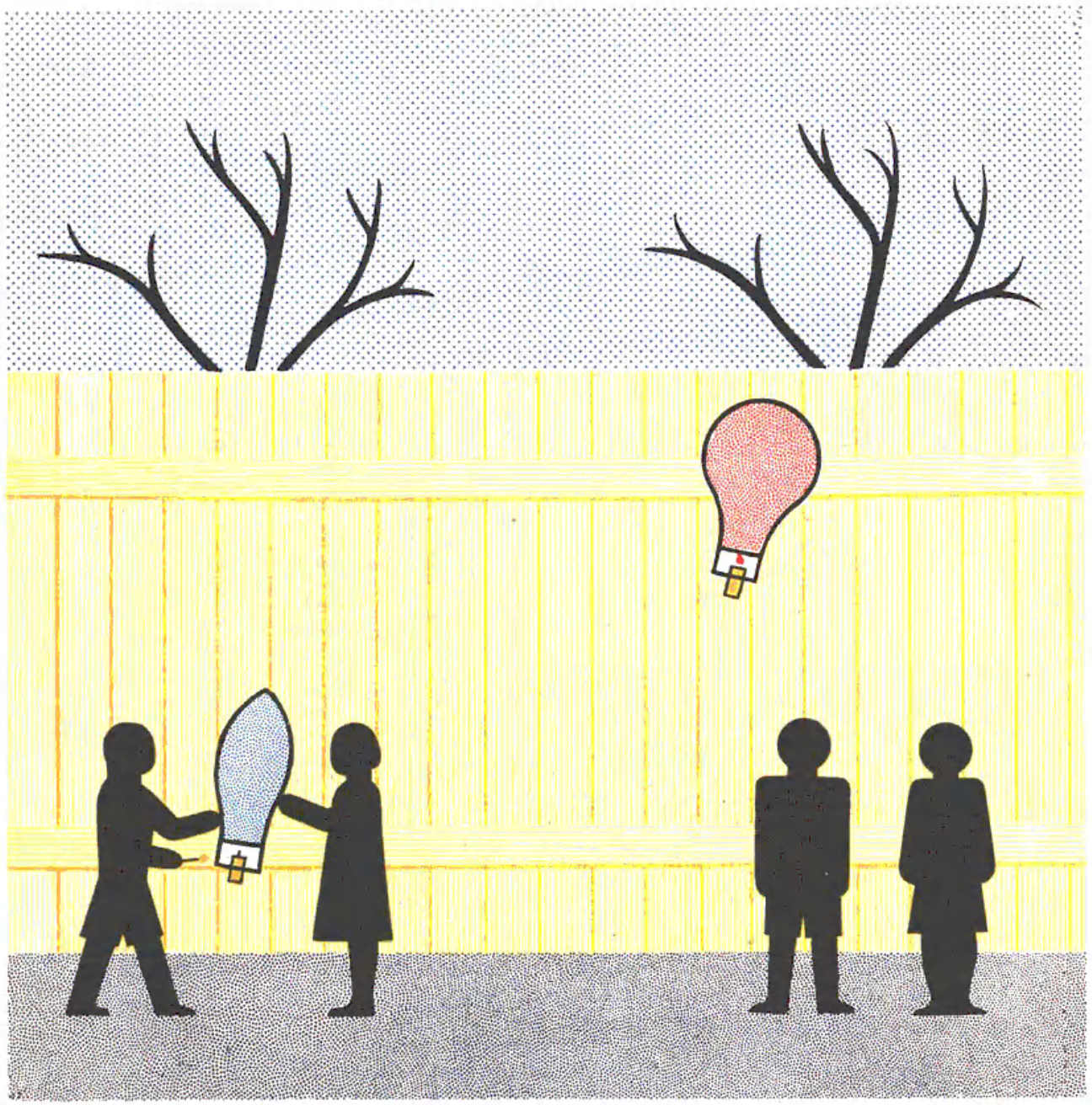


The green centre of each flower swells.

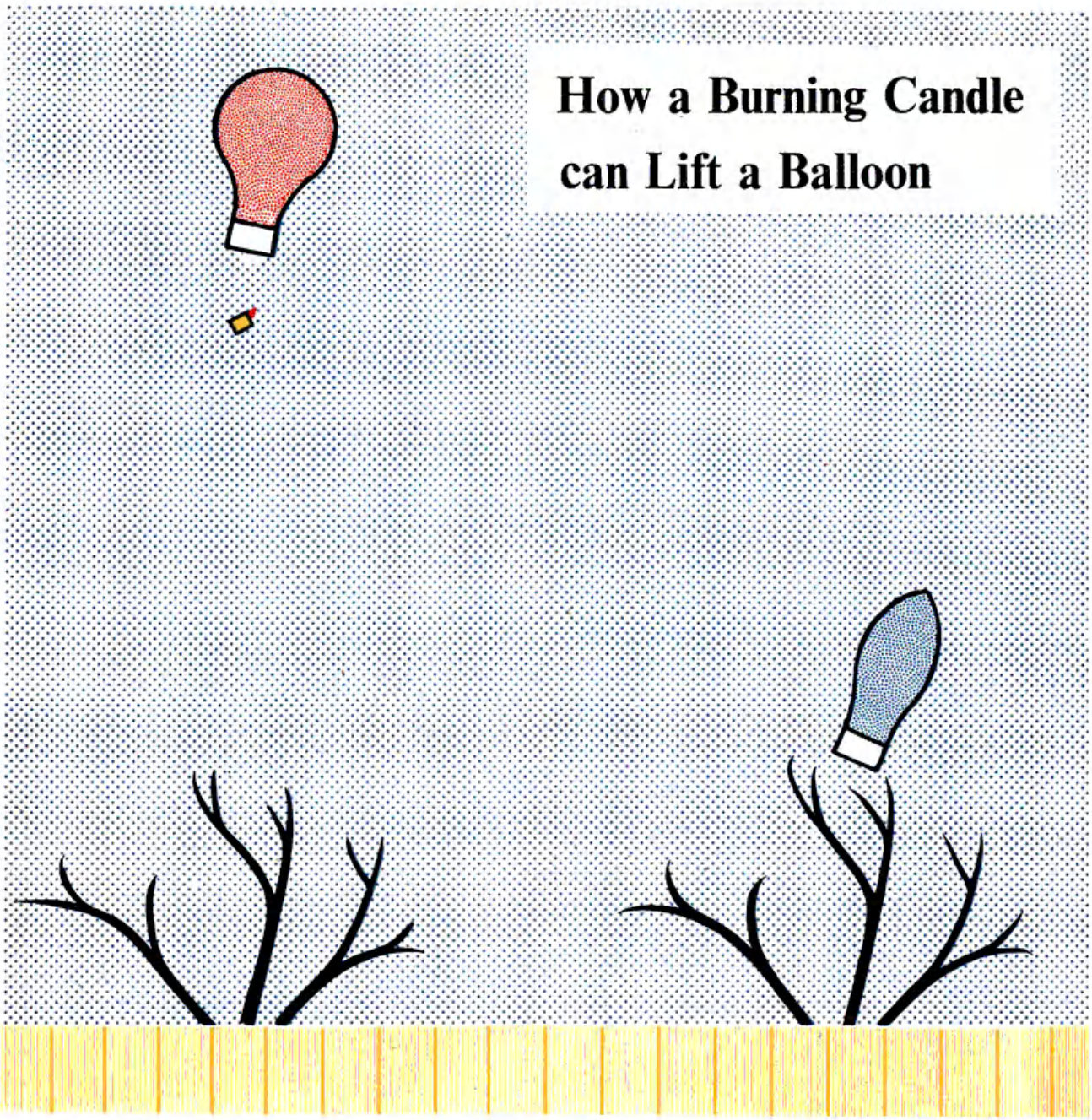
First the Flower, then the Fruit



By early summer it has turned red and ripened into a strawberry.

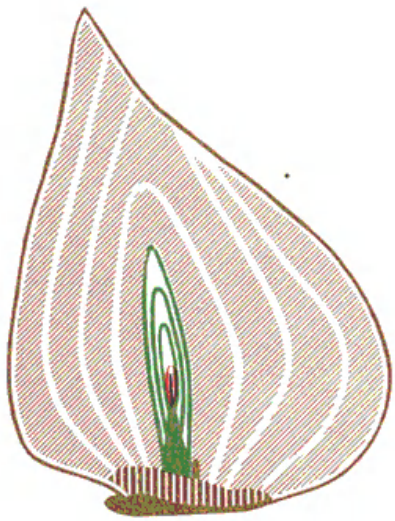


At the bottom of this paper balloon is a hole, and under it is a candle, held in place by a wire. When the boy lights the candle the balloon quickly swells, and soon it rises high into the air.



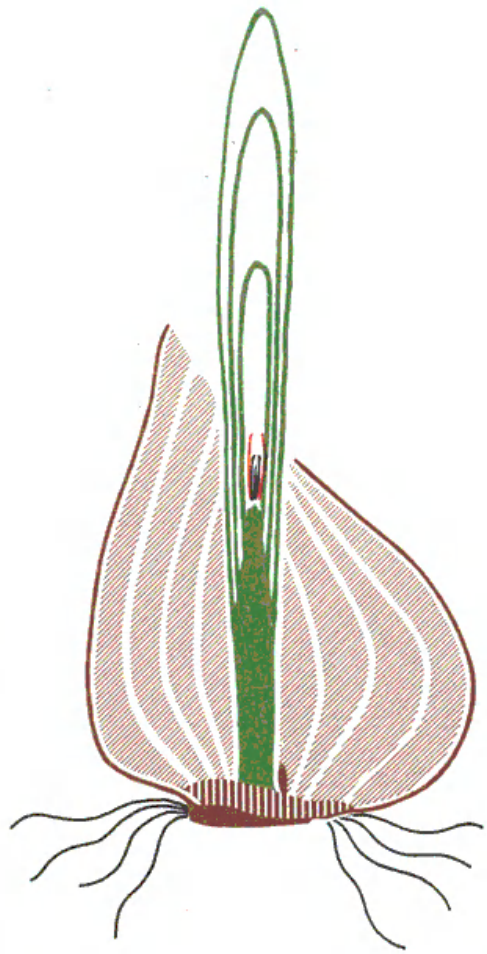
The air inside it has expanded through the heat and is lighter than the air outside. When the candle burns past the wire and drops away, the air inside cools. The balloon folds up and falls to earth.

How the Spring brings a New Flower every Year



December

The tiny flower and leaves
are already formed inside
the tulip-bulb.
Their food comes from
the layers of
the bulb.



March

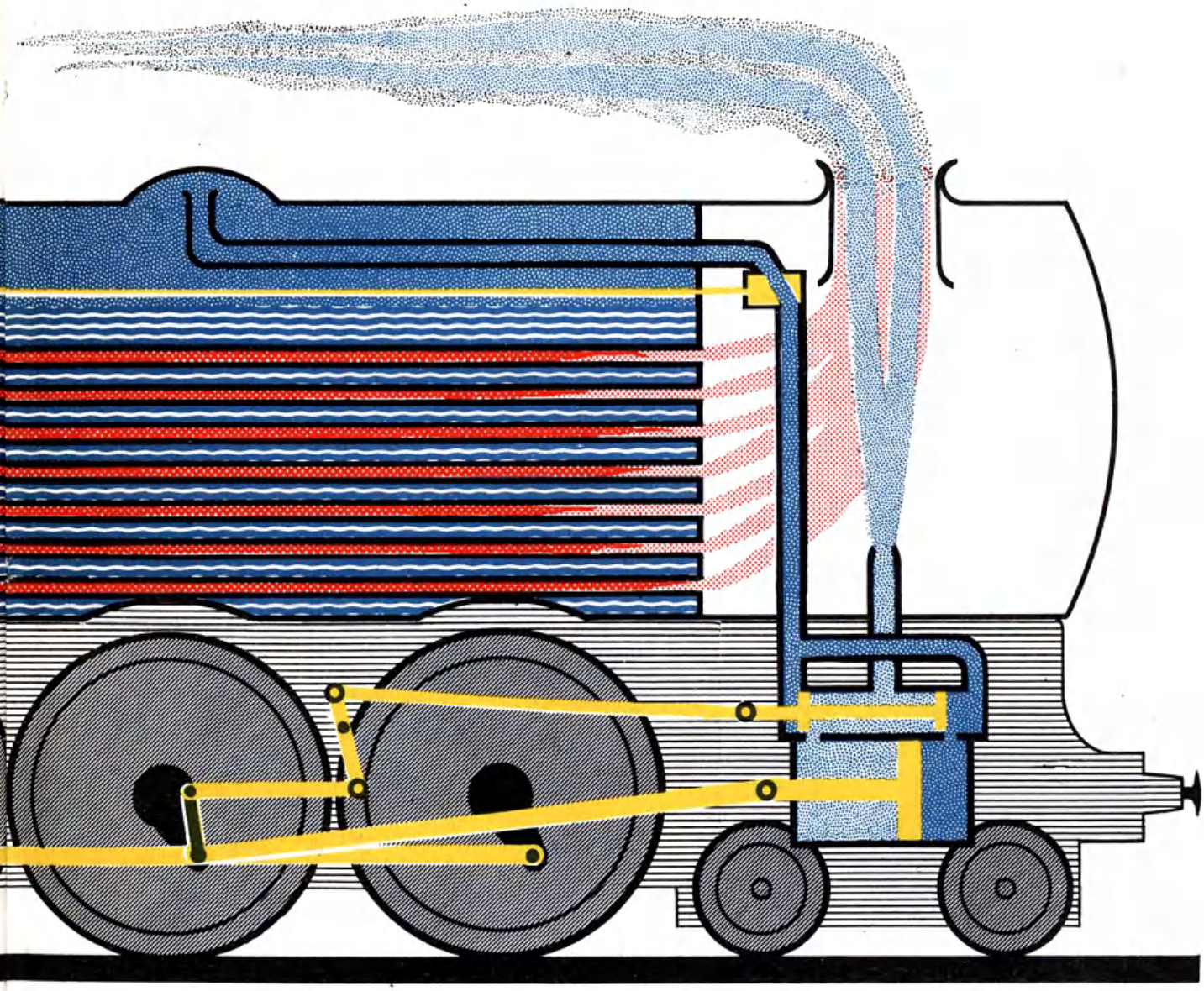
Roots have grown,
to bring food and water
from the soil. Green leaves
appear above the ground.

May

The
flower
opens.

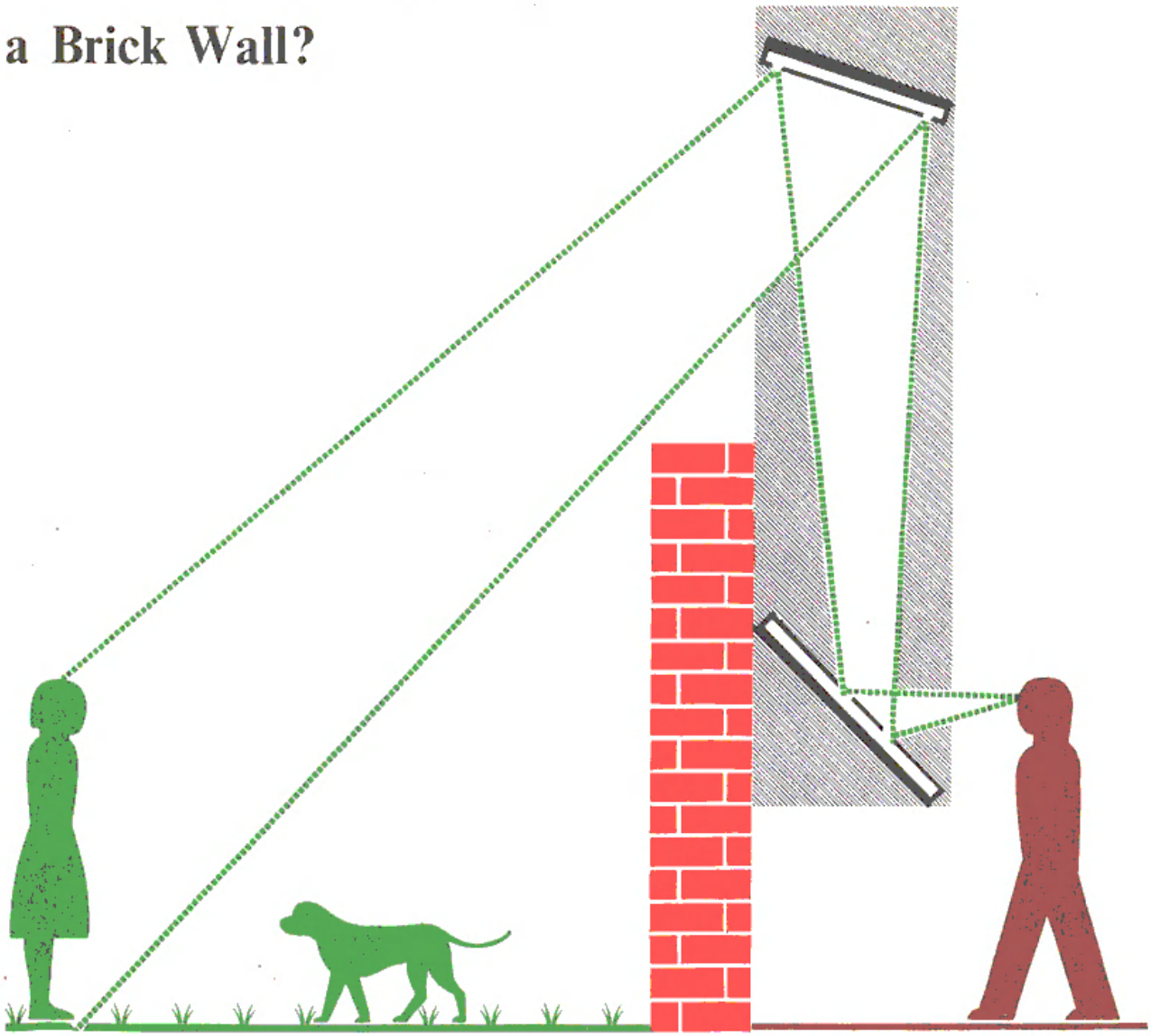
July

The flower is dead
and the leaves fade.
Inside the shrivelled skin
of the old bulb,
a new one forms.

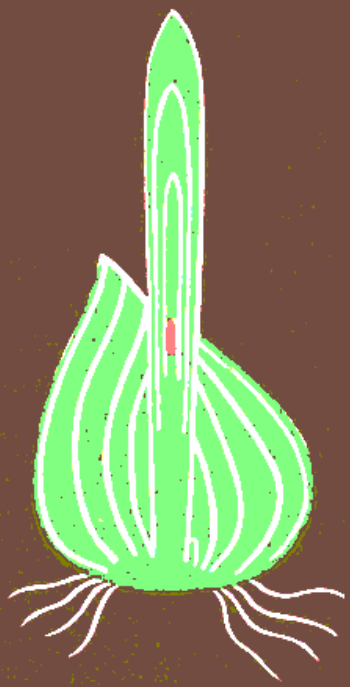


s inside the boiler. The water boils fiercely and the steam pushes hard
the pipe and thrusts against the pistons. The large piston turns the
. Used steam puffs from the funnel, mixed with smoke from the fire.

Can You see through a Brick Wall?



This boy can. In the mirror which rests against the wall he sees the girl on the other side. Why? Because the rays of light which carry her picture are reflected by another mirror above.



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